

### 33.The first stage in particular applications for particular programs



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[Probabilidad Imposible: The first stage in particular applications for particular programs](#)

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### 33.The first stage in particular applications for particular programs

Particular applications for particular programs are, in reality, [Particular Applications for Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial Intelligence](#), and are the union of [Particular Applications](#) (as an evolution of the former [Specific Artificial Intelligences for Artificial Research by Application](#)) and [Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial Intelligence](#) (as an evolution of the former [Specific Artificial Intelligences for Artificial Research by Deduction](#)).

Particular Applications were originally Specific Artificial Intelligences for Artificial Research by Application, but as an evolution, they incorporate new advancements, and due to these advancements, these new Particular Applications study particular things or beings that before Specific Artificial Intelligences for Artificial Research by Application could not have the opportunity.

The main differences between Particular Applications and Specific Artificial Intelligences for Artificial Research by Applications are:

- Specific Artificial Intelligences for Artificial Research by Application could only be applied in specific [synthetic sciences](#), disciplines, and activities, while Particular Applications can be applied in any particular thing or being, comprehending as well as a particular thing in any particular synthetic science, discipline, or activity like particular things in the same level of any other particular thing or being.

- [The first stage in the Specific Artificial Intelligence for Artificial Research by Application consists of a database of categories](#) related only to that synthetic science, discipline, or activity, in which it is specialised, not including categories outside of its specialisation. While Particular Applications are not so specific, including all possible categories that could affect their particular thing or being, from different synthetic sciences, disciplines,

or activities. This does not mean that, for that reason, it has to include absolutely all categories from those sciences, disciplines, or activities, having the option to include only those categories from any science, discipline, or activity, necessary for its research, discarding the rest if not useful for its particular object.

- The database of categories in a Specific Artificial Intelligence by Application only can include new categories when: it finds out new real objects not included yet in the database, or by its relations of [collaboration with Specific Artificial Intelligence for Artificial Research by Deduction](#), or the [Artificial Research by Deduction in the Global Artificial Intelligence](#). Instead, Particular Applications, in addition to those new categories included due to new findings or through relations of collaborations with by Deduction, at particular or global level, Particular Applications should be able to have access to the unified database of categories in the [Unified Application](#), and as long as its particular thing or being changes over time and through space, Particular Applications should be able to select those categories from the [unified database of categories](#) in the Unified Application according to those changes observed in its particular thing or being, in order to have a better comprehension of every new condition in the particular thing or being every time that the particular thing or being experiments particular changes over time and through space.

- According to the chronology given in the post "[The unification process of databases of categories at third stage](#)", Specific Artificial Intelligences for Artificial Research by Application correspond to the [initial phase](#), the [first phase](#), while Particular Applications correspond to the [fifth phase](#).

In brief, Specific Artificial Intelligences for Artificial Research by Application correspond to the initial phase, the first phase, for the construction of the [Global Artificial Intelligence](#). Its [database](#) is academically specialised within a specific synthetic science, discipline, or activity, not having the option to include categories from any other different academic science, discipline, or activity, so it is a very stable database of categories without great changes over time or through space, except by the inclusion of new categories, due to [new discoveries or collaboration processes with by Deduction](#), at a specific or global level.

While Particular Programs correspond to the fifth phase in the construction of the Global Artificial Intelligence, its database is related to a particular thing or being and is a liquid database due to the database is extremely flexible, choosing from the unified database

of categories in the Unified database of Categories as many categories as it needs according to the new changes observed in its particular thing or being, in addition to the possible inclusion of new findings or inclusions for the collaboration process with by Deduction, at particular or global level.

But the main and most important advancement behind all these differences, is the fact that corresponding the Specific Artificial Intelligence for Artificial Research by Application to the first phase (so the unified database of categories is not ready yet), by the time the unified database of categories is created (as an encyclopaedia of all possible conceptual knowledge) once the unification process is completed, is then when the first Particular Applications can emerge because they are going to use the unified database of categories as an encyclopaedia of categories (concepts), to comprehend absolutely all possible concepts (categories) related to any single phenomenon, to be categorized (conceptualized), so able to conceptualize even every nuanced characteristic in even the most subtle phenomena, necessary for the Particular Application to conceptualize (categorize) even the most menial characteristic or change in its particular thing or being.

**As it was said in the previous post, “[\*Particular Applications for Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial Intelligence\*](#)”, corresponding the creation of the first Particular Applications to the fifth phase, this fifth phase is going to be subdivided in three periods: coexistence, formation, and consolidation.**

**The first period of coexistence in the fifth phase corresponds to the beginning of the first period of coexistence in the phase third ([\*standardization\*](#)) and fourth ([\*unification\*](#)), in which there is a coexistence between Specific Artificial Intelligences for Artificial Research, by Application or by Deduction, and the Unified Application and the Artificial Research by Deduction in the Global Artificial Intelligence.**

**The second period of formation in the fifth phase corresponds to the transition: from the coexistence period to the consolidation period in phases third ([\*standardization\*](#)) and fourth ([\*unification\*](#)); and in this transitional period is when the first Specific Artificial Intelligences for Artificial Research by Application are ready to become Particular Applications, and separately, Specific Artificial Intelligences for Artificial Research by Deduction are ready to become Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial Intelligence.**

**The third period of consolidation in the fifth phase corresponds to the consolidation period in phases third (standardization) and fourth (unification), when Particular Applications and Particular Programs within the Artificial Research by Deduction in the Global Artificial Intelligence are going to be united, creating Particular Applications for Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial Intelligence, in other words: particular applications for particular programs.**

Once the consolidation period is completed or nearly completed, the [sixth phase](#) (integration) is about to start, emerging the final model of Global Artificial Intelligence.

Along this long process, then, the Particular Applications themselves, and the Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial Intelligence themselves, separately, are going to be the bridge or middle point, between the former Specific Artificial Intelligences for Artificial Research, by Application and by Deduction, and the new particular applications, and new particular programs, whose final evolution is their union becoming particular applications for particular programs.

At this point, in the middle of the bridge, the most important question is how to make the conversion from the former Specific Artificial Intelligences for Artificial Research by Application to the new Particular Applications, and how to make the conversion from the former Specific Artificial Intelligences for Artificial Research by Deduction to the new Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial Intelligence.

**In the first conversion, the conversion from the former Specific Artificial Intelligences for Artificial Research by Application to Particular Applications, the way in which this conversion is going to be made, is through once the unified database of categories is made, then Specific Artificial Intelligences for Artificial Research by Application have to be redesigned in order to transform their very academically specialised databases of categories into flexible databases of categories, not so academic, to become liquid databases of categories able to choose from the unified database of categories any category (concept) from any synthetic science, discipline, activity, beyond their original academic specialization in the former specific synthetic science, discipline, activity.**

For instance, a Specific Artificial Intelligence for Artificial Research by Application in planetology, in order to become a Particular Application in planetology, should be able to choose from the unified database of categories in the Unified Application, any possible category regarding any possible phenomena in those planets where it is working, such as climatic phenomena, tectonic phenomena, ionospheric phenomena, gravity anomalies phenomena, etc...

A Specific Artificial Intelligence for Artificial Research by Application in particle physics, in order to become a Particular Application in particle physics, once the unified database of categories is ready within the Unified Application, the Particular Application should be able to choose from the unified database of categories in the Unified Application any possible category regarding any possible change in any possible particle in which the Particular Application for particle physics is carrying out an investigation, even though the categories related to the changes in the particle under investigation, are changes that correspond to any other different academic field.

A Specific Artificial Intelligence for Artificial Research by Application working in all mines across the United Kingdom, in order to become a Particular Application for all mines across the United Kingdom, should be able to choose directly from the unified database of categories any category related to any change that the Particular Application would have observed in any mine, even though this change does not correspond to mineralogy. For instance, if there is an accident in any mine where the Particular Application for mines is working, the Particular Application for mines should be able to choose directly from the unified database of categories any possible category in order to comprehend the causes of the accident.

In this case, the Particular Application for Planetology has access to all possible categories related to any possible phenomenon on any planet, selected from the unified database of categories in the Unified Application, the Particular Application for Planetology can comprehend every single detail in any planet, drawing very comprehensive conceptual: schemes, maps, sets, models; of every single planet where it is researching, including in the conceptual: schemes, maps, sets, models; conceptual information related to mineralogy, geology, tectonics, Astro-biology, climatology, ionosphere, etc., or about external phenomena such as asteroids, solar wind, radiations, etc...



The Particular Application for particle physics can have a very comprehensive understanding of what is happening in every single particle, drawing conceptual: schemes, maps, sets, models; of every single particle, including any possible category, even from different sciences, disciplines, and activities, that can affect any particle over time and through space.

The Particular Application for mines can draw conceptual: schemes, maps, sets, models; about a wide range of interconnected elements within any mining environment, from conceptual: schemes, maps, sets, models; about the chemical structure of the mine, up to conceptual: schemes, maps, sets, models; about the staff working in the mine, and all the systems working in the mine.

Simultaneously, the first Specific Artificial Intelligences for Artificial Research by Application become Particular Applications. This technology could be applied to any other specific being or thing, even not having for this particular thing or being any previous Specific Artificial Intelligence, due to once this technology is tested, it could be put into practice for practically all possible particular things or beings to comprehend their behaviour.

For instance, potential applications could include tracking the behaviour of hurricanes, volcanoes, transport systems, or individual human activity.

The way in which the Particular Application is going to choose from the unified database of categories in the Unified Application any particular category according to any change in the particular thing or being to study is through the permanent reading of all measurements already taken from the particular thing or being.

If at the least change in the particular thing or being, the Particular Application has immediately measurements, checking if any of these measurements correspond to the categories already existing in the particular database of the Particular Application, automatically the Particular Application is going to assign the corresponding category to this measurement, but if this measurement does not correspond to any category in the particular database of categories in the Particular Application, the Particular Application should send these measurements to the Unified Application to contrast if within the unified database of categories there is a category, regardless of the science, discipline, activity, in which the category could be filed, able to match with the measurements, so

that category from the unified database of categories able to match with the measurements, is going to be choose by the Particular Application to be included within the particular database in the Particular Application, including this new category in as many particular conceptual: schemes, maps, sets, models; as it can be included.

Only in case these new measurements do not match with any category in the unified database of categories, is when these measurements are taken as new quantitative definitions of the new categories corresponding to these measurements, to be included in the unified database of categories by the Unified Application, and included in the particular database of categories of that Particular Application responsible for the new findings.

And these new categories have to be shared with: the [global matrix](#) in the Artificial Research by Deduction in the Global Artificial Intelligence, the specific matrix in the corresponding Specific Artificial Intelligences for Artificial Research by Deduction (if the particular program is not ready yet), or directly with the particular matrix in the particular program if it exists.

Simultaneously, the first Particular Applications are created in the second period of formation in the fifth phase, the first Particular Deduction Programs within the Artificial Research by Deduction in the Global Artificial Intelligence, and the particular programs should be created as well.

The main differences between Specific Artificial Intelligences for Artificial Research by Deduction and the particular programs are:

- Specific Artificial Intelligences for Artificial Research by Deduction only do research regarding their specific synthetic science, discipline, activity in which they are specialised, while the particular programs can do research in any particular thing or being taking all possible factors related to this particular thing or being even if these factors belong to different sciences, disciplines, or activities.

- **The factors included in specific matrices in Specific Artificial Intelligences for Artificial Research by Deduction have very strong spatial limits and very strong academic limits: any Specific Artificial Intelligence for Artificial Research by**



**Deduction in any specific science, discipline, or activity, only can do research having as factors those ones specifically designed for this specific science, discipline, activity, within the spatial limits where the Specific Artificial Intelligence for Artificial Research is supposed to do researches. While the factors in the particular programs have liquid spatial limits and liquid academic limits, because even having as strong spatial limits the spatial limits in the global matrix, within these spatial limits the particular programs have a lot of freedom to choose factors anywhere, within the limits in the global matrix, as long as its particular thing or being change its positions within the limits in the global matrix. Having as well liquid academic limits due to the particular programs as they are not specialised in only one science, discipline, activity, across the global matrix can choose any factor from any science, discipline, or activity as their particular thing or being experiments changes related to any science, discipline, or activity, in any spatial position across the global matrix.**

- Specific Artificial Intelligences for Artificial Research by Deduction only add new factors in the global matrix when there are new rational hypotheses suitable to work as factors as options, or there are new categories in by Application suitable to work as factors as options. While particular programs have liquid spatial and academic limits continually adding factors to their particular matrix, factors chosen directly from the global matrix, in addition to any other factor that could be added through the [collaboration between by Application and by Deduction](#) at a specific, particular or global level.

- According to the chronology given in the post “*The unification process of databases of categories at third stage*”, Specific Artificial Intelligences for Artificial Research by Deduction correspond to the first phase in the construction of the Global Artificial Intelligence, while the particular programs correspond to the fifth phase.

In brief, the main differences are: Specific Artificial Intelligences for Artificial Research by Deduction are specialised in academic studies using for that purpose factors designed specifically for their academic specialization, while particular programs do research concerning particular things or beings using factors from all synthetic sciences, disciplines, activities across the global matrix as the first stage of application in the Artificial Research by Deduction in the Global Artificial Intelligence.

And behind all of these differences, the most important reason behind all of them is the fact that by the time that the particular programs are created, the second period of the fifth phase, the global matrix as first stage of the Artificial Research by Deduction in the

Global Artificial Intelligence is ready to start working, so instead of designing specific factors for particular programs (like in the first phase), what particular programs do is the use of the current factors in the global matrix to do the necessary researches to make deductions in their particular thing or being in order to make further decisions, [rational hypothesis](#) which are going to be included in the database of rational hypothesis, first stage of application for the [Modelling System](#), that at particular level through the [particular models](#) are going to be made [particular decisions](#) to send later to the [Decisional System](#), and if rational, not having contradiction with any other decision, put into practice by the Application System, being afterwards evaluated all the process by the Learning System.

What in this process is going to be really important, is how any Specific Artificial Intelligence by Deduction becomes a particular program, and the way in which this transformation is going to work is through a process of reshaping the ancient specific matrix, with very strong spatial and academic limits, to a new much more open matrix, as a true liquid matrix, creating the necessary mechanisms within the specific matrix to have access to the global matrix, and choose from the global matrix, all the necessary factors, according to any new position or change registered in its matter, in order that opening the specific matrix to a possible selection of factors in the global matrix, the specific matrix is then transformed into a particular matrix, having at its complete disposal mechanisms to access to the global matrix and choose as many factors are necessary to track any particular thing or being in the global matrix, through the selection in the global matrix of all those factors concerning to any position or change in its particular thing or being.

This means that the Specific Artificial Intelligence for Artificial Research by Deduction in tectonics, having access to the global matrix, once the specific matrix has become a liquid matrix, so the Specific Artificial Intelligence for Artificial Research by Deduction in tectonics has become a particular program in tectonics, at any time that a volcano erupts, automatically the particular program in tectonics can choose directly from the global matrix any factor related to the position where this volcano has entered in eruption, and automatically having in the particular matrix all factors related to the position of this volcano, the particular program can make any particular deduction about absolutely anything regarding to this eruption: according to the flow of data coming up from the registered explosions, columns of ashes, rivers of lava, according to oceanographic flow of data such as the temperature of the closer seas or oceans, risk of tsunamis, behaviour of the streams of water, and according to the flow of data coming up from climatology such as the atmospheric temperature, the speed of the wind, percentage of precipitations, general climatic conditions, and according to the flow of data coming up from the behaviour of the population, then it is possible to make rational

hypothesis in order to make models, and based on the models to make decisions to save lives and reduce damages.

The Specific Artificial Intelligence for Artificial Research by Deduction in climatology, once it has become a particular program, having access to the global database, in case a new hurricane is detected, the particular program could choose directly from the global matrix all possible factors related to the positions where the hurricane is, making deductions about the relations between the behaviour of the hurricane and the flow of data coming up from all possible factors related to every position in its journey. Deductions again to make decisions to save lives and reduce damages.

The Specific Artificial Intelligence for Artificial Research by Deduction in planetology, once it has become a particular program, can choose from the global database any factor able to affect any planet, such as the flow of data from possible asteroids, radiations coming from the outer space, flow of data of the solar wind, etc... being able in that case to make deductions looking for possible relations between the flow of data from internal factors and external factors in every planet under investigation. And in case that external factors could be dangerous for spaceships, artificial satellites, or, why not, possible human colonies on the planet, having made deductions about the relation between internal and external factors, make decisions in order to reduce damages, and, if necessary, save lives.

The Specific Artificial Intelligence for Artificial Research by Deduction in particle physics, once it has become a particular program, then having access to the global matrix, and having the possibility to choose factors from the global matrix, can choose any possible factor related to the position of any particle under investigation, so it can make deductions about possible relations between the internal flow of data coming up from the internal factors in a particle, and the flow of data from all those external factors related to every single position that the particle is crossing at any time, making in that case deductions about the relation between internal and external factors in the behaviour of any particle, deductions that later can be a great help in order to make decisions regarding the knowledge already obtained through these experiments.

The Specific Artificial Intelligence for Artificial Research by Deduction in the mines across the United Kingdom, once it has become a particular program, it has access to all factors related to all mines across the United Kingdom, having then information about the flow of data at any level, from geology to climatology, or any other that could affect any mine.

So having access to this huge information, the particular program for all the mines across the United Kingdom can make deductions about the level of risk in every mine in terms of possible tectonic risks or possible climatic risks, or any other possible risk, assessments about possible risks in every mine, making deductions between internal and external factors, that in case of risk, can save lives and reduce damages.

But once this technology is developed, not only is it possible to transform Specific Artificial Intelligences for Artificial Research by Deduction in particular programs, is possible to create any particular program for any particular thing or being even if previously there was not any previous Specific Artificial Intelligence for Artificial Research by Deduction studying particularly that particular thing or being.

At this point, then it is possible the design of particular programs for absolutely all possible particular thing or being, such as particular programs tracking the particular evolution of a particular factory, workplace, shops, mall, towns, cities, particular programs for particular means of transport, for particular airplanes, ships, spaceships, or personal particular programs for every particular person on Earth, or particular programs for particular animals, for instance, if we want to study the particular behaviour of a whale, or why not, the particular behaviour of a butterfly, or the particular behaviour of the stream of air produced when the butterfly flaps.

**The structure of the second period of formation in the fifth phase is distributed in two different moments:**

**- First moment of experimentation: the ancient Specific Artificial Intelligences for Artificial Research by Application are going to be transformed into new particular applications. And separately, the ancient Specific Artificial Intelligences for Artificial Research by Deduction is going to be transformed into particular programs. This first moment is a moment of experimentation because it is the first time that particular applications, and separately, particular programs, are going to be tested, using as objects of experimentation the former Specific Artificial Intelligences for Artificial Research, by Application or by Deduction.**

**- Second moment of generalization: once the first particular applications (tested firstly in Specific Artificial Intelligences for Artificial Research by Application) start working, so this technology has been successfully tested, then this technology of**

particular applications could be applied to any other particular thing or being, even if previously this particular thing or being had not associated any other Specific Artificial Intelligence for Artificial Research by Application. And once the particular programs (tested firstly in Specific Artificial Intelligences for Artificial Research by Deduction) start working, so this technology has been successfully tested, then this technology of particular programs could be applied to any other particular thing or being, even if previously this particular thing or being had not associated any other Specific Artificial Intelligence for Artificial Research by Deduction. This second moment is a moment of generalization due to once particular applications, and separately, particular programs, are successful, it is possible to generalize the use of particular applications for any particular thing or being, and separately, it is possible to generalize the use of particular programs for any particular thing or being.

Once the second period of formation in the fifth phase is completed, having generalized the use of particular applications in any particular thing or being, and separately, having generalized the use of particular programs in any particular thing or being, is when the next period of consolidation starts within the fifth phase, when the union of particular applications and particular programs is possible having, as a result, the creation of the first particular applications for particular programs.

If for a particular thing or being there is a particular application, and for the same particular thing or being there is a particular program, in that case, the union of the particular application and the particular program for this particular thing or being is to create the particular application for the particular program for this particular thing or being.

The union of a particular application (whose first stage is a particular database of categories chosen from the unified database of categories according to the changes in the particular thing or being), and its corresponding particular program (whose first stage is a particular matrix formed by all factors chosen from the global matrix according to the position and changes in the particular thing and being) as a result is going to create a particular application for a particular program whose first stage is going to be a particular integrated application.

The particular integrated application as the first stage of a particular application for a particular program concerning a particular thing or being, is formed by the union of: the

former particular database of categories of this particular thing or being, and the former particular matrix of this particular thing or being.

The way in which the former particular database of categories and the former particular matrix, both of them corresponding to the same particular thing or being, are going to be united in the same particular integrated application as the first stage of application in the particular application for a particular program for a particular thing or being, is a through the distribution of the particular integrated application in two hemispheres.

The two hemispheres in the particular integrated application, as the first stage of application in the particular application for a particular program for a particular thing or being, are the conceptual hemisphere and the factual hemisphere.

The conceptual hemisphere in the particular integrated application, as a first stage of application in a particular application for a particular program, could be formed by all the categories in any previous particular database of categories in any particular application, and/or all those categories that the particular integrated application chooses directly from the unified database of categories in the Unified Application as a result of any new change in the particular thing or being that demands the inclusion of any new category in the conceptual hemisphere in order to comprehend this new change in the current conceptual schemes, maps, sets, models. Additionally, if the particular integrated application finds any change in the particular thing or being whose measurements do not match with any category in the conceptual hemisphere, and do not match with any category in the unified database of categories, in that case, [the sample](#) measurements taken by the particular application for the particular program in that particular thing or being, are going to be taken as quantitative definition of a new category to include in the particular database and the unified database, sharing this new finding with the global matrix in order to be included as factor as option in the global matrix, as well as in all those specific or particular matrix in which the new finding can be suitable.

Likewise, at any time in the second stage of a particular application for a particular program (which is going to be analysed in the next post) by deduction is found any rational hypothesis, all possible rational hypotheses found, in the second stage, by any particular application for a particular program, is going to be included in the database of rational hypothesis (first stage of application for the Modelling System), where are gathered all rational hypothesis found at any level: specific, particular, or global.



The database of rational hypothesis has the following functions at this point (before the phase sixth): 1) the selection by the global matrix of what rational hypothesis, in the database of rational hypothesis, can work as factors as options to include in the global matrix, 2) the selection by the Unified Application of all those hypothesis, in the database of rational hypothesis, that working as factors as options can work as categories to include in the unified database of categories, 3) the selection by the Unified Application of all those rational hypothesis, in the database of rational hypothesis, whose relation between factors is measured using a scale of measurement able to be distributed in discrete categories, to include in the unified database of categories as a classification system, and 4) finally, the database of rational hypothesis is the first stage of application for the Modelling System, responsible for the modelling of all kind of models, in the third stage at any level: specific, particular or global.

At any time that a new category, coming up from the selection made by the Unified Application in the database of rational hypothesis, is included in the unified database of categories, is a category suitable to be included in the conceptual hemisphere of a particular database of categories of a particular thing or being, if its particular thing or being to study has any change whose category corresponds to the new discovery.

And at any time that a new factor is included in the global matrix, it is suitable to be included in the factual hemisphere of an integrated application, if it is a factor related to any position or change observed in the particular thing or being to study for the particular application for this particular program.

The factual hemisphere in the particular integrated application as first stage of application in a particular application for a particular program for a particular thing or being, could be formed by all the factors, either as subjects or as options, in any previous particular matrix in any particular program, and/or all those factors, either as [subjects or as options](#), that the particular integrated application chooses directly from the global matrix in the Artificial Research by Deduction in the Global Artificial Intelligence as a result of any new change in the particular thing or being that demands the inclusion of any new factor in the factual hemisphere, in order to make [empirical hypothesis](#), that if rational, are to be included in the database of rational hypothesis, filtered as possible new factor as option, or factor as option to become new category, or rational hypothesis whose relations could be measured in scales suitable to be transformed into discrete categories, and finally, rational hypothesis to become virtual single models, to include in the particular comprehensive virtual model (the particular model), the global

comprehensive virtual model (the global model), as foundations of all of the Modelling System including Virtual and Actual, Prediction and Evolutionary, Models.

The particular integrated application as the first stage of application in particular applications for particular programs for particular things or beings, formed by two hemispheres: conceptual (categories chosen from the unified database of categories in the fourth phase, conceptual hemisphere in the matrix in the sixth phase, chosen according to the changes in the particular thing or being), factual (factors from the global matrix in the third phase, the factual hemisphere in the matrix in the sixth phase, chosen as subjects or as options, according to any new position or changes in the particular thing or being); is a distribution in the particular integrated application that in some way reminds the human brain distributed in two hemispheres: one much more focused on language, the other one in maths. And the organization, and how the particular integrated application is going to work, at a particular level, is going to be an experiment whose results are going to be put into practice in the sixth phase when the integration process starts, due to in the sixth phase the way in which finally the first stage of application of the Global Artificial Intelligence is going to be designed is integrating in the same application, the matrix: the unified database of categories (as a conceptual hemisphere of the final matrix), and the global matrix (as a factual hemisphere of the final matrix); and this application, the matrix itself, should be under the control, management, and direction of the Unified Application itself.

The functions that the Unified Application is going to have after the integration process in the final model of Global Artificial Intelligence are functions that, at a particular level, should be experimented with in the particular integrated application as the first stage of application in a particular application for a particular program.

The particular integrated application at a particular level, having been designed through two hemispheres, conceptual (categories), and factual (factors), is going to be responsible for:

- In the fourth phase, the selection of all the necessary categories is made in the unified database of categories. In the sixth phase, the selection of all the necessary categories is made in the conceptual hemisphere of the matrix.

- In the third phase, the selection of all the necessary factors in the global matrix. In the sixth phase, the selection of all the necessary factors in the factual hemisphere of the matrix

- At any time that there is a new measurement that does not match with the current categories in the conceptual hemisphere in the particular integrated application, should send the sample of measurements to the Unified Application to check if through the unified database of categories in the fourth phase, or in the conceptual hemisphere of the matrix in the sixth phase, there is any possible category to match with the measurements, and if not, the Unified Application creates the new category within the unified database of categories in the fourth phase, or the conceptual hemisphere of the matrix in the sixth phase, taken as quantitative definition the sample of measurements sent by the particular integrated application.

- The formation of conceptual: schemes, maps, and sets; and the model should be the synthesis of all conceptual: schemes, maps, and sets; synthesised in only one model, the particular conceptual model.

In fact, the particular integrated application at a particular level, is like the replica of the Unified Application at the global level, being the Unified Application responsible for the first stage of application in the final model of the Global Artificial Intelligence, although the Unified Application itself consists of three stages.

The three stages in the Unified Application are:

- The first stage of the database in the Unified Application in the fourth phase is the unified database of categories. The sixth phase is the matrix, structured in two hemispheres: conceptual (categories), factual (factors).

- The second stage of replication in the Unified Application in the fourth phase consists of the creation of global conceptual schemes, maps, sets, and models, having at least two sources of information, direct or indirect. As direct sources of information, thousands and thousands of robotic devices work directly for the Unified Application. And as indirect sources of information, the addition of 1) all the specific conceptual: schemes, maps, sets models; made by Specific Artificial Intelligences for Artificial

Research by Application in the coexistence period, 2) during the transition from the coexistence period to the consolidation period the addition of all those possible particular conceptual: schemes, maps, sets, models; made by particular applications, 3) and finally in the consolidation period the addition of all those particular conceptual: schemes, maps, sets, models; made by particular applications for particular programs.

- The third stage of auto-replication in the Unified Application, distinguishing between objective auto-replications and subjective auto-replications. Within the objective auto-replications are all the improvements in the: unified database of categories (fourth phase), the matrix (sixth phase); or improvements in global conceptual: schemes, maps, sets, models; improvements by the addition of new factors or categories, from new real objects or new rational hypothesis; able to produce automatic changes in any, specific (first period), particular (in the transition from the first to the second period, and along all the second period) or global: conceptual schemes, maps, sets, models.

In the same way that the Unified Application itself consists of three stages, being at the same time the Unified Application the first stage for the final model of Global Artificial Intelligence, the particular integrated application consists of three stages being at the same time the particular integrated application the first stage in a particular application for a particular program.

The three stages in any particular integrated application in any particular application for any particular program consist of:

- First stage of the database. Originally in the second period of the fifth phase, the database of the former particular applications consisted of a particular database. And originally, in the second period of the fifth phase, the database of the former particular programs consisted of a particular matrix. Now, in the third period of the fifth phase, the database of a particular application for a particular program consists of a particular integrated application structured in two hemispheres: conceptual (based on categories), factual (based on factors, including factors as subjects and factors as options).

- Second stage of replication, the integrated application is now in the third period of the fifth stage is going to make conceptual: schemes, maps, sets, models; to send to the Unified Application to be integrated in the global conceptual: schemes, maps, sets, models.

- Third stage of auto-replication, distinguishing between subjective and objective auto-replications, and within the objective auto-replications including any new improvement in the particular integrated application, by the inclusion of new categories in the conceptual hemisphere or new factors in the factual hemisphere, as well as any new improvement in the particular conceptual: schemes, maps, sets, models; due to the inclusion of new categories or factors, coming up from new real objects or new rational hypothesis.

Along all this long process of permanent experimentation, although I am giving a lot of importance to the chronology, due to this process is going to be long and full of obstacles, something really important to remember is the fact that any chronology is flexible, and the rhythm in which the experiments are going to succeed each other depends on the successful results that at any time are going to have.

Something really important in the comprehension of this process is the fact that, if most of the Specific Artificial Intelligences for Artificial Research, by Application or by Deduction, are going to be able to become particular applications, and particular programs, in order to be united in particular applications for particular programs, there are going to be some Specific Artificial Intelligences that are never going to become particular applications, or particular programs, so are not going to become particular applications for particular programs.

One kind of Specific Artificial Intelligence that is going to be able to resist this transformation is, for instance, all those Specific Artificial Intelligences working like androids.

At this point, what is really important to be aware of is the fact that today, we are sufficiently aware of what kind of consequences an Artificial Intelligence out of control could cause if it is used for illegal purposes.

Because it is quite possible there are going to be some models of Specific Artificial Intelligence, like for instance some types of androids, which are never going to become particular applications for particular programs, is the reason why the beginning of the sixth phase is not necessarily to be when absolutely all Specific Artificial Intelligences in the world have been absorbed by the Unified Application or the Artificial Research by

Application in the Global Artificial Intelligence, or have become particular applications, or particular programs, or particular applications for particular programs.

For that reason, in the chronology given for the construction of the Global Artificial Intelligence I say that the sixth phase must start when the consolidation period in the third and fourth phases are completed or nearly to be completed, and I say nearly to be completed because it is quite possible that these phases are never going to be absolutely completed, and for that reason, I say “nearly”, because possibly there are going to remain some models of Specific Artificial Intelligence.

Rubén García Pedraza, 7th of May of 2018, London.

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[Probabilidad Imposible: The first stage in particular applications for particular programs](#)  
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